

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P638260

Luminaire Tested: **IFLD-M-SA4A-827-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638260  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-827-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (64) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10442 lumens  
Efficiency: N/A  
Efficacy: 81.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G1

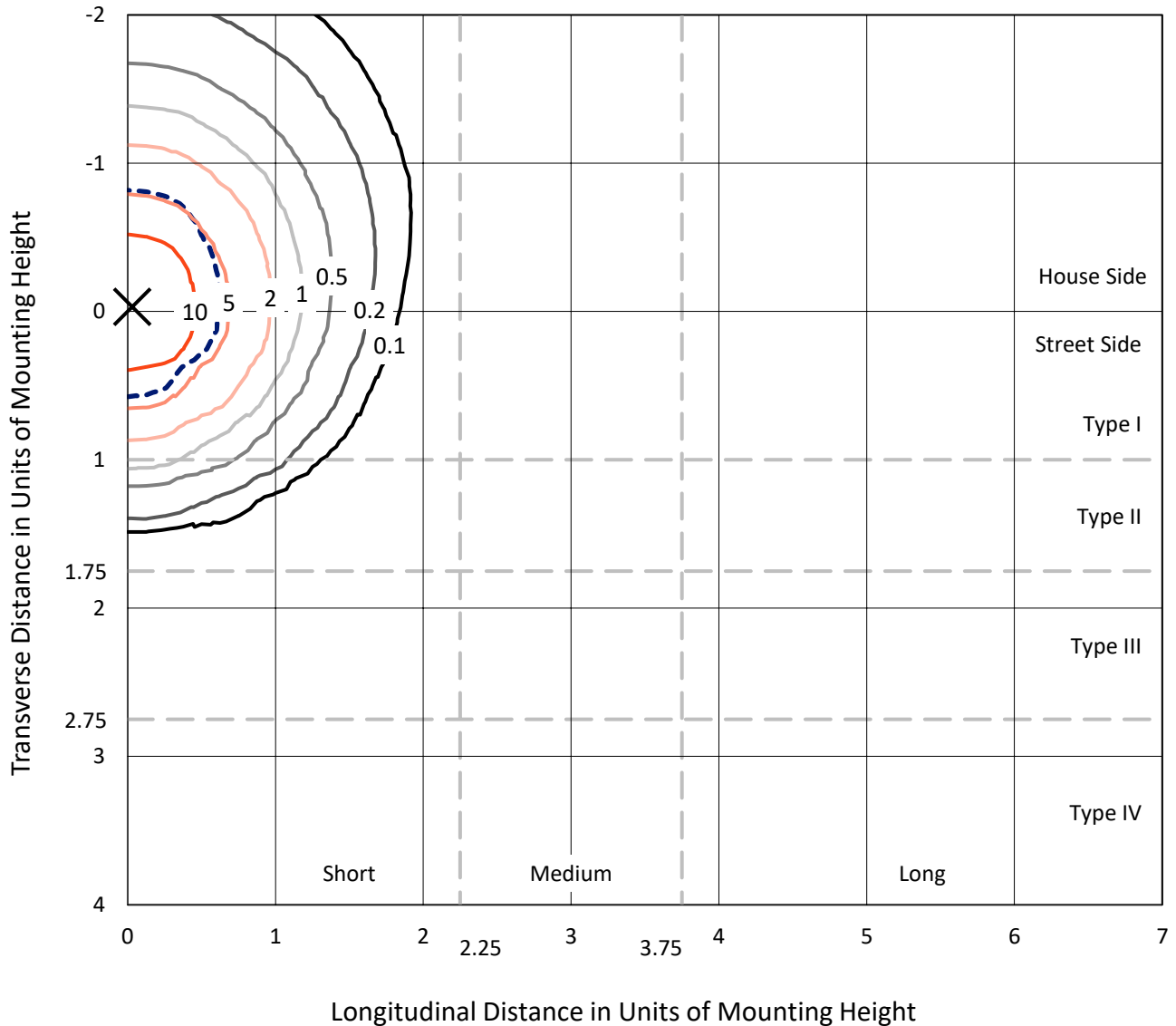
Input Watts (W): 128.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

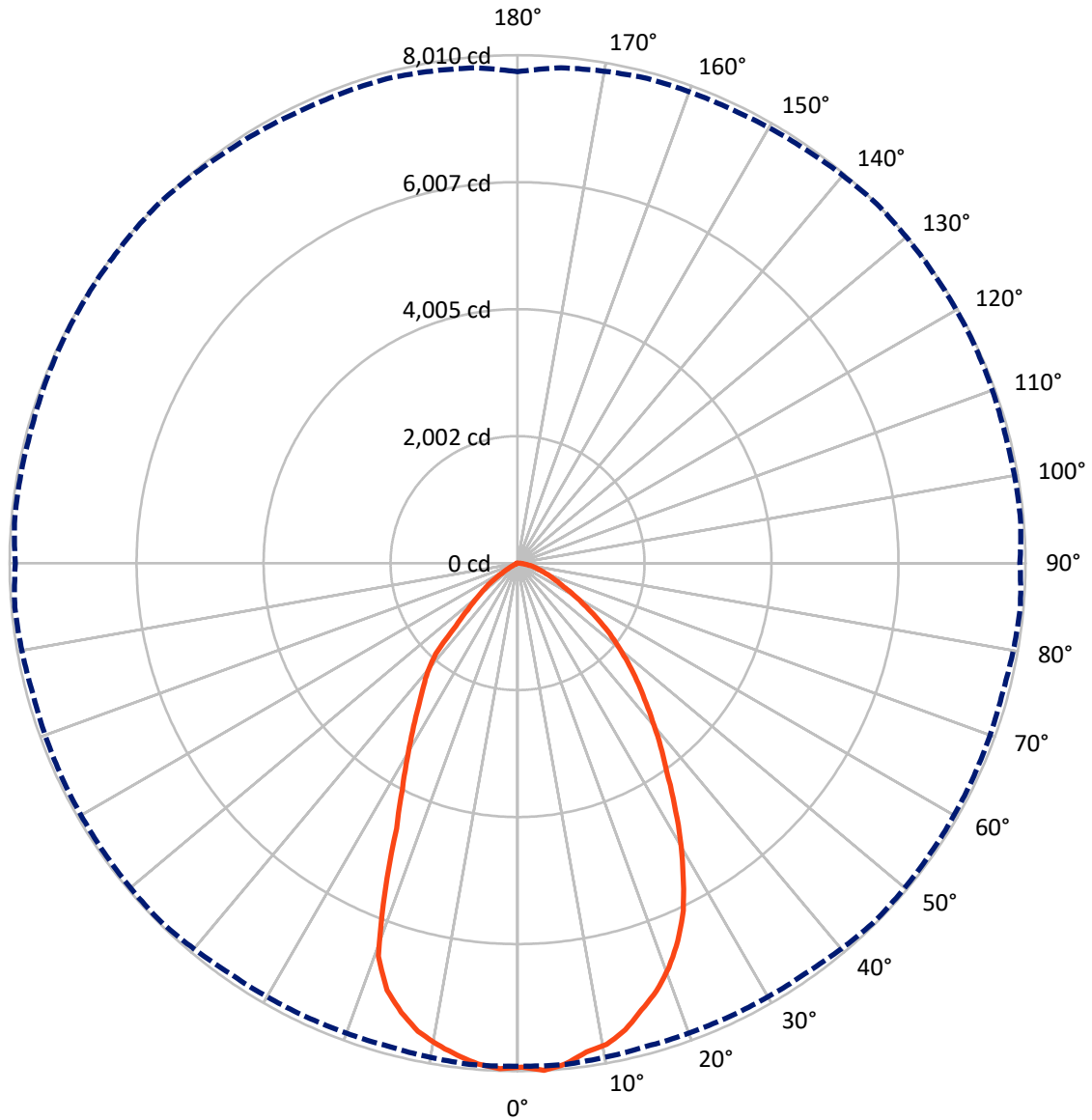
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 19.9 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6184.3	0.0	6184.3
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	4257.7	0.0	4257.7
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	10442.0	0.0	10442.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	745.2	7.1
10°-20°	1998.4	19.1
20°-30°	2437.2	23.3
30°-40°	2225.1	21.3
40°-50°	1608.0	15.4
50°-60°	878.0	8.4
60°-70°	363.0	3.5
70°-80°	147.0	1.4
80°-90°	40.0	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	10442.0	100.0
0°-180°	10442.0	100.0



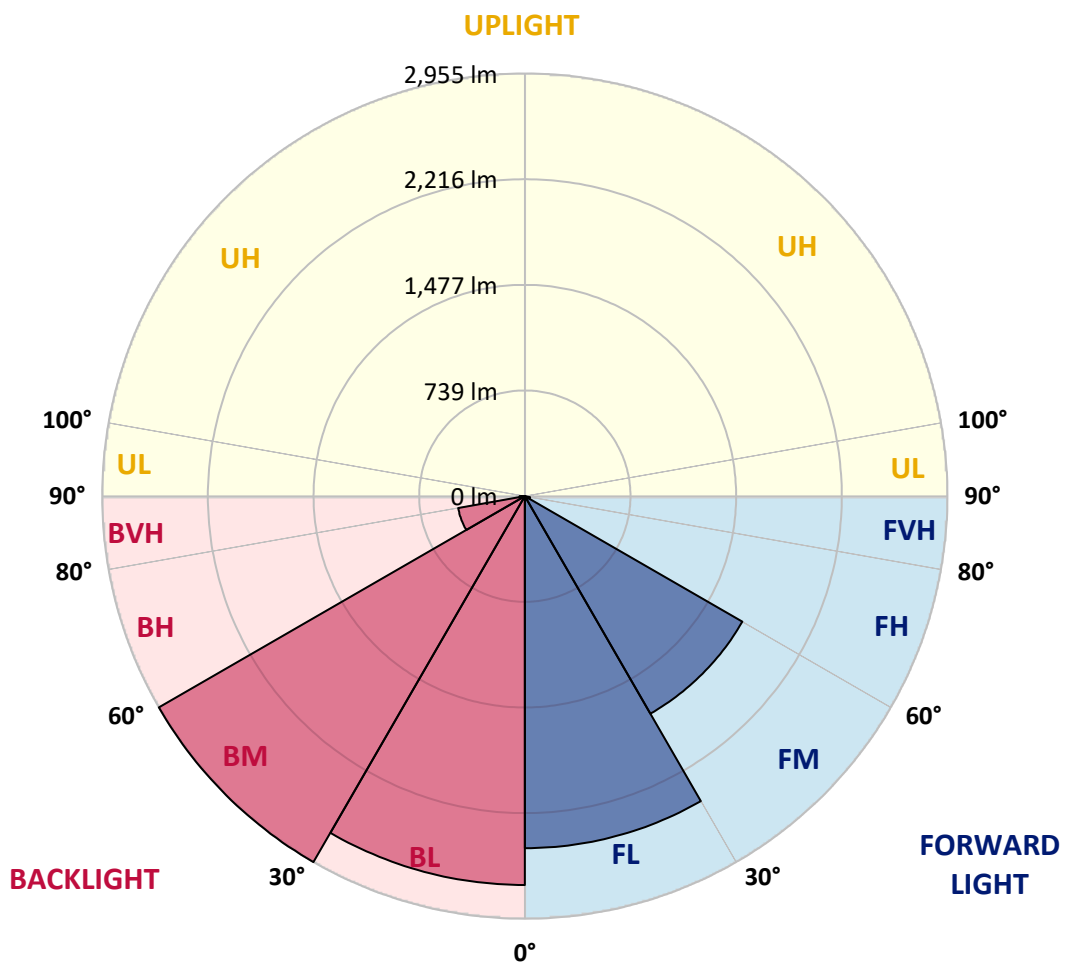
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2461.6	23.6			
FM (30°-60°)	1756.1	16.8			
FH (60°-80°)	36.8	0.4			G0/660
FVH (80°-90°)	3.2	0.0			G0/10
BL (0°-30°)	2719.2	26.0	B4/5000		
BM (30°-60°)	2955.0	28.3	B3/5000		
BH (60°-80°)	473.3	4.5	B1/500		G1/500
BVH (80°-90°)	36.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3
2.5°	7931.6	7941.9	7886.0	7891.9	7902.2	7977.2	7958.1	7940.4	7915.4	7958.1
5°	7921.3	7927.2	7868.4	7847.8	7856.6	7924.2	7862.5	7862.5	7856.6	7849.2
7.5°	7841.9	7844.8	7799.3	7762.5	7786.0	7816.9	7771.3	7793.4	7761.0	7786.0
10°	7722.8	7703.7	7649.3	7639.0	7665.4	7694.8	7664.0	7684.6	7655.1	7674.3
12.5°	7547.8	7518.4	7474.3	7461.0	7506.6	7546.3	7521.3	7509.6	7471.3	7518.4
15°	6872.9	6850.8	6950.8	7125.8	7283.1	7316.9	7290.5	7302.2	7222.8	7236.1
17.5°	5656.8	5615.6	5723.0	6137.6	6728.8	7040.5	7017.0	6940.5	6822.9	6849.3
20°	5140.7	5128.9	5117.2	5215.7	5628.9	6574.4	6606.7	6412.6	6245.0	6208.2
22.5°	4849.5	4845.1	4833.4	4855.4	4964.2	5571.5	5942.1	5762.7	5650.9	5640.6
25°	4583.4	4576.0	4540.7	4568.7	4568.7	4604.0	5078.9	5187.7	5089.2	5077.5
27.5°	4312.8	4299.6	4293.7	4306.9	4239.3	4001.1	4121.7	4652.5	4601.0	4604.0
30°	4020.2	4015.8	3999.6	4027.6	3818.8	3523.2	3446.7	4167.2	4177.5	4174.6
32.5°	3584.9	3604.1	3677.6	3708.5	3364.4	3120.3	2992.4	3605.5	3815.8	3811.4
35°	2604.2	2604.2	2843.8	3289.4	2948.2	2764.4	2695.3	3057.1	3458.5	3473.2
37.5°	2141.0	2148.3	2195.4	2398.3	2543.9	2479.2	2458.6	2573.3	2999.7	3023.2
40°	1926.3	1926.3	1926.3	1842.5	1838.1	2233.6	2221.8	2185.1	2590.9	2642.4
42.5°	1730.7	1735.1	1738.1	1526.3	1408.7	1930.7	1904.2	1848.4	2224.8	2285.1
45°	1529.3	1536.6	1545.4	1276.3	1224.9	1389.6	1611.6	1549.9	1863.1	1941.0
47.5°	933.7	945.5	1145.5	1082.2	1088.1	1072.0	1314.6	1304.3	1527.8	1638.1
50°	630.8	635.2	654.3	686.7	933.7	842.6	930.8	1079.3	1160.2	1327.8
52.5°	529.4	536.7	489.7	445.5	613.2	658.8	649.9	801.4	833.7	1041.1
55°	372.0	395.6	373.5	369.1	348.5	511.7	492.6	616.1	636.7	791.1
57.5°	38.2	44.1	76.5	275.0	227.9	289.7	351.4	451.4	472.0	583.8
60°	2.9	2.9	7.4	38.2	166.2	173.5	242.6	277.9	317.6	407.3
62.5°	0.0	1.5	2.9	5.9	26.5	92.6	122.0	145.6	191.2	263.2
65°	0.0	0.0	1.5	4.4	5.9	35.3	47.1	76.5	104.4	163.2
67.5°	0.0	0.0	1.5	2.9	4.4	8.8	16.2	27.9	55.9	92.6
70°	0.0	0.0	1.5	2.9	4.4	7.4	11.8	17.6	25.0	50.0
72.5°	0.0	0.0	1.5	1.5	2.9	7.4	8.8	11.8	17.6	25.0
75°	0.0	0.0	1.5	1.5	4.4	8.8	7.4	8.8	11.8	16.2
77.5°	0.0	0.0	1.5	2.9	4.4	8.8	7.4	8.8	8.8	10.3
80°	0.0	0.0	1.5	2.9	5.9	10.3	8.8	8.8	7.4	7.4
82.5°	0.0	0.0	1.5	4.4	5.9	13.2	13.2	11.8	5.9	4.4
85°	0.0	0.0	2.9	5.9	8.8	14.7	14.7	11.8	4.4	2.9
87.5°	0.0	0.0	2.9	4.4	7.4	10.3	14.7	11.8	4.4	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
7946.3	0°	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3
7921.3	2.5°	7961.0	7952.2	7981.6	7993.3	8009.5	7947.8	7909.5	7911.0	7840.4
7831.6	5°	7878.7	7880.1	7918.4	7915.4	7931.6	7897.8	7883.1	7858.1	7796.3
7718.4	7.5°	7774.3	7761.0	7797.8	7825.7	7784.5	7808.1	7774.3	7786.0	7749.3
7618.4	10°	7693.4	7662.5	7696.3	7715.4	7716.9	7693.4	7661.0	7630.1	7616.9
7462.5	12.5°	7514.0	7474.3	7531.6	7558.1	7553.7	7508.1	7471.3	7478.7	7436.1
7189.0	15°	7266.9	7268.4	7309.6	7334.6	7311.1	7300.8	7303.7	7286.1	7249.3
6811.1	17.5°	6889.0	6911.1	7019.9	7080.2	7093.4	7072.8	7062.6	7042.0	7005.2
6208.2	20°	6259.7	6392.0	6586.1	6772.9	6809.6	6803.8	6767.0	6758.2	6737.6
5611.2	22.5°	5706.8	5805.3	6030.3	6321.5	6471.4	6486.1	6442.0	6428.8	6406.7
5077.5	25°	5134.8	5240.7	5443.6	5759.7	6070.0	6133.2	6125.9	6086.2	6062.7
4604.0	27.5°	4652.5	4758.4	4942.2	5227.4	5559.8	5762.7	5781.8	5718.6	5717.1
4182.0	30°	4217.2	4362.8	4502.5	4734.8	5056.9	5361.2	5393.6	5349.5	5353.9
3795.2	32.5°	3876.1	3996.7	4115.8	4271.6	4539.3	4893.6	5020.1	4978.9	4962.8
3473.2	35°	3527.6	3609.9	3732.0	3874.6	4057.0	4408.4	4627.5	4596.6	4580.4
3037.9	37.5°	3130.6	3271.7	3360.0	3520.2	3662.9	3942.3	4251.1	4246.7	4212.8
2667.4	40°	2723.3	2871.8	3005.6	3167.3	3277.6	3499.7	3842.3	3840.8	3845.2
2283.6	42.5°	2354.2	2490.9	2652.7	2829.1	2935.0	3096.8	3464.4	3485.0	3510.0
1967.5	45°	2020.4	2143.9	2293.9	2508.6	2636.5	2729.1	3055.6	3149.7	3148.2
1685.1	47.5°	1720.4	1836.6	1963.0	2171.9	2335.1	2418.9	2689.4	2823.3	2814.4
1382.2	50°	1444.0	1546.9	1679.3	1830.7	2049.8	2123.3	2324.8	2501.2	2488.0
1101.4	52.5°	1161.7	1304.3	1416.0	1554.3	1785.1	1857.2	2013.0	2185.1	2174.8
826.4	55°	905.8	1044.0	1179.3	1298.4	1492.5	1599.8	1711.6	1888.1	1885.1
647.0	57.5°	685.2	836.7	964.6	1077.8	1232.2	1364.6	1454.3	1614.6	1635.1
442.6	60°	507.3	623.5	761.7	888.1	1010.2	1146.9	1207.2	1364.6	1373.4
302.9	62.5°	345.6	473.5	608.8	723.5	814.6	955.8	1010.2	1139.6	1155.8
194.1	65°	239.7	322.0	476.4	558.8	670.5	791.1	845.5	948.4	980.8
111.8	67.5°	158.8	229.4	372.0	447.0	557.3	639.6	708.8	792.6	827.9
70.6	70°	86.8	169.1	266.2	352.9	448.5	527.9	595.5	663.2	694.1
32.3	72.5°	58.8	113.2	185.3	279.4	361.7	439.7	500.0	549.9	551.4
19.1	75°	29.4	76.5	141.2	216.2	282.3	358.8	413.2	442.6	407.3
11.8	77.5°	17.6	55.9	114.7	173.5	229.4	289.7	320.6	336.7	279.4
8.8	80°	10.3	39.7	89.7	138.2	158.8	213.2	242.6	247.0	186.7
5.9	82.5°	7.4	29.4	70.6	101.5	97.0	150.0	182.3	176.5	119.1
4.4	85°	4.4	20.6	44.1	63.2	58.8	98.5	105.9	108.8	69.1
2.9	87.5°	2.9	11.8	23.5	33.8	27.9	42.6	42.6	51.5	33.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
7946.3
7749.3
7781.6
7687.5
7558.1
7399.3
7212.5
6989.0
6690.5
6400.9
6037.7
5714.2
5331.8
4964.2
4558.4
4240.8
3845.2
3496.7
3151.2
2817.4
2499.8
2196.8
1892.5
1626.3
1386.6
1158.7
973.4
823.5
682.3
538.2
380.8
269.1
175.0
110.3
63.2
29.4
0.0

(END OF REPORT)